AMENDMENTS TO THE CLAIMS:

Complete Listing of Claims

Claim 1 (canceled)
Claim 2 (canceled)
Claim 3. (currently amended) A gain controlled voltage controlled
oscillator, comprising:
a current controlled oscillator adapted to provide an output signal
oscillating at a frequency controllable by controlling a current applied thereto;
a first current source providing a first control current controllable by
controlling a voltage applied thereto that has a predetermined range;
a first current mirror adapted to mirror the control current to the current
controlled oscillator and comprising A gain controlled voltage controlled
oscillator as in Claim 1, wherein the first current source is a first MOS
transistor having the control voltage applied to a gate thereof and connected
by its source and drain between an input of the first current mirror and
ground <u>; and</u>
a second current source adapted to provide a second control current
for mirroring to the current controlled oscillator by the first current mirror when
the control voltage is in a low portion of the range, comprising, and wherein
the second current source comprises:
a current source element providing a supplemental current.;
a second current mirror comprising a second transistor and a
third MOS transistor, wherein the second MOS transistor is connected
to the current source element and the third MOS transistor is adapted

to mirror the supplemental current, the third MOS transistor being

22	connected to the common connection node of the first current source
23	and the first current mirror,; and
24	a fourth MOS transistor having a gate connected to the gate of
25	the first MOS transistor and being connected by its source and drain
26	between the current source element and ground.